

Priority Assessment Factors

06/17/2011

Restoration Alternatives		Alt 1	Alt 2	Alt 2A	Alt 3	Alt 4	Alt 5	Alt 6
1	Total Project Site Footprint (acres)	225.00	168.00	144.20	97.00	27.00	11.90	13.20
2	Total Converted Farmland (acres)	201.50	146.00	130.00	76.30	11.30	7.40	0.00
3	Total Converted WDFW Farmland (acres)	194.90	139.40	130.00	69.70	8.00	7.40	0.00
4	Total Converted Private Farmland (acres)	6.60	6.60	0.00	6.60	3.30	0.00	0.00
5	Market Value of Converted Farmland (\$8200/acre)	\$1,652,300	\$1,197,200	\$1,066,000	\$625,660	\$92,660	\$60,680	\$0.00
6	Annual Value of Lost Crop Production (\$2593/acre)	\$522,490	\$378,578	\$337,090	\$197,846	\$29,301	\$19,188	\$0.00
7	Tidegate Fish Initiative Credits	209.40	151.30	130.00	77.10	11.60	7.60	2.50
8	Total Length of New Flood Dike	8,600.00	7,360.00	5,629.00	8,200.00	7,625.00	4,725.00	-
9	Restored Tidal Marsh Habitat (acres)	202.50	145.00	126.60	72.30	8.80	7.00	0.00
10	Low Tidal Marsh Habitat Restored (acres)(snow geese forage)	172.00	159.00	108.50	98.00	45.00	0.00	0.00
11	Restoration Cost Per Acre Tidal Marsh Restored	\$81,590.12	\$103,689.66		\$180,165.98	\$367,386.36	\$334,000.00	N/A
12	Net Restored Channel Area Combined (SF Regression) (acres)	29.10	21.58	17.44	7.21	2.93	0.71	1.80
13	Chinook Smolts Produced Annually Chinook Model	108,795	80,654	65,194	26,686	5,426	1,305	6,659
14	Chinook Smolts Produced Annually – Reference Site	535,058	396,659	320,625	132,625	26,964	6,484	33,092
15	Chinook Smolts Produced Annually Per Acre Converted Farmland	2,655	2,717	2,466	1,738	2,386	876	N/A
16	Restoration Cost Per Chinook Smolt Produced - Referece Site - 50 Years	\$0.62	\$0.76		\$1.96	\$2.40	\$7.21	\$0.98
17	Annual Adult Chinook Produced – Chinook Model							
18	Annual Adult Chinook Produced – Reference Site							
19	Restoration Cost Per Chinook Adult Produced - Referece Site - 50 years							
20	Snow Geese –WDFW Total Winter Forage Area Lost (acres)	202	146	130	76	11.3	7.4	0
21	Snow Geese - Hayton Total Winter Forage Area Lost (acres)	376	272	242	141	21	14	0
22	Snow Geese –WDFW Total Winter Forage Caloric Lost (kcal)	351,842,553	254,302,043	226,437,120	132,376,406	19,682,281	12,889,282	0
23	Snow Geese – Hayton Total Winter Forage Caloric Lost (kcal)	654,427,148	473,001,800	421,521,408	246,220,115	36,609,044	23,974,063	0
24	Snow Geese – WDFW Total Number Snow Geese Supported	2909	2102	1872	1094	163	107	0
25	Snow Geese – Hayton Total Number Snow Geese Supported	5,410	3,911	3,485	2,036	302	198	0
26	Snow Geese – WDFW Annual Lost Lease Revenue WDFW Only	\$41,286	\$27,068		\$9,296	\$2,869	\$1,879	0
27	Snow Geese – WDFW Lost Lease Revenue WDFW + Hayton	\$76,811	\$50,359		\$17,294	\$5,338	\$3,495	0
28	Snow Geese – NAWCA Reimbursement Cost (\$8200/acre)	\$1,656,400	\$1,197,200	\$1,066,000	\$623,200	\$92,660	\$60,680	0
29	Public Access Amenities	maintain	maintain	maintain	maintain	maintain	maintain	maintain
30	Capital Cost of New Drainage/Flood Infrastructure	\$12,431,000	\$11,564,000		\$10,356,000	\$2,593,000	\$1,911,000	\$1,366,000
31	Real Estate Acquisition, Easements, NAWCA Costs	\$1,729,000	\$1,274,000		\$702,000	\$142,000	\$61,000	\$0
32	Engineering, Permits, Administration, Construction Oversight	\$2,362,000	\$2,197,000		\$1,968,000	\$498,000	\$367,000	\$262,000
33	Total Restoration Cost	\$16,522,000	\$15,035,000		\$13,026,000	\$3,233,000	\$2,338,000	\$1,629,000

NOTE: 50% SRT fish access modifier applied